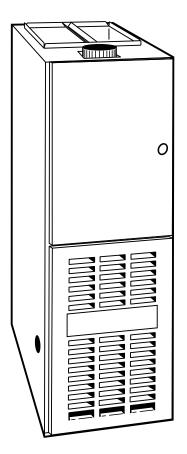


PLUS 80t with Perfect Heat™ DOWNFLOW INDUCED-COMBUSTION FURNACE

331JAV

California Approved Sizes 060 thru 100 Series C





The Plus 80t Downflow Furnace achieves 80 percent Annual Fuel Utilization Efficiency (AFUE) rating. The benefits of Perfect Heat operation in reducing sound and improving comfort put it in a class well ahead of the competition. The Plus 80t has the kind of overall performance needed in today's homes. All models are GAMA efficiency rating certified and certified for use in California Air Quality Management Districts.

FEATURES

EFFICIENCY — The Plus 80t Induced-Combustion Gas Furnace provides the efficiency customers want with 80.0% AFUE.

HOT SURFACE IGNITION — No pilot to waste gas with this field-proven ignition system.

ALUMINIZED HEAT EXCHANGER — The patented 4-pass heat exchanger is made of aluminized steel and backed by a 20-year Limited Warranty.

INTELLIGENT CONTROL — The Plus 80t has an intelligent control that monitors the operation of the furnace. This control also has a component-test feature that enables the servicing technician to verify operation of the control; the high and low inducer; the hot surface ignitor; and high-, medium-, and low-speed blower operation. The control features a 3-amp fuse that protects the transformer and control. We guarantee the reliability of the control with a 3-year Limited Warranty.

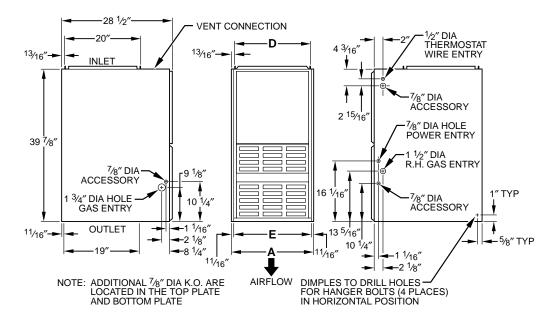
40-IN. HEIGHT — The Plus 80t cabinet height is only 40 in. This simplifies installation in alcoves, attics, basements (ideal for short basement), closets, and utility rooms, especially with a taller high-efficiency cooling coil.

PREPAINTED CABINET — The Plus 80t uses prepainted sheet metal for the cabinet. This is the same high-quality finish found on refrigerators and other appliances today. We ensure its durability by using a galvanized steel substrate to provide superior rust protection.

PATENTED BLOCKED VENT SAFEGUARD — Our induced-combustion furnace has a patented blocked vent safeguard. The safeguard switch will stop furnace operation if the vent system becomes blocked or is not operating properly. An exclusive with the Plus 80t furnace.

EASY INSTALLATION — The Plus 80t has many features that make installation easier: left or right gas and electrical connections, heating and cooling blower speed selector, matching coil sizes, accessory low-voltage connections, and many more.

QUIET OPERATION — A soft mount inducer assembly and 2-stage slow-opening gas valve reduce sound level. The Perfect Heat operation capability minimizes furnace and air noise for total home comfort.



- NOTES: 1. Two additional ⁷/₈-in. dia holes are located in the top plate.

 2. Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.

 a. For 800 CFM-16-in. round or 14½ x 12-in. rectangle.

 b. For 1200 CFM-20-in. round or 14½ x 23½-in. rectangle.

 c. For 1600 CFM-22-in. round or 14½ x 23½-in. rectangle.

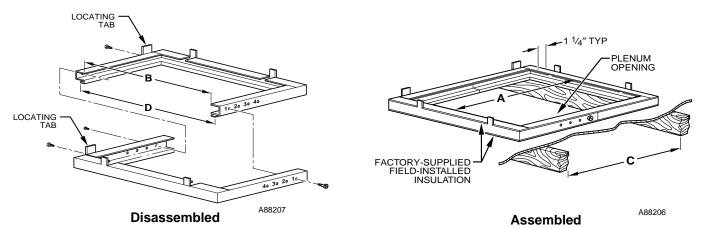
 d. For airflow requirements above 1800 CFM, must use entire return air opening.

DIMENSIONS (In.)

A99109

UNIT SIZE	UNIT SIZE A		E	VENT CONN (Dia)	SHIPPING WEIGHT (Lb)	
036060	14-3/16	12-9/16	12-11/16	4	145	
048080	17-1/2	15-7/8	16	4	154	
060100	21	19-3/8	19-1/2	4	181	

ACCESSORY DOWNFLOW SUBBASE



DIMENSIONAL DATA (In.)

	PLENUM OPENING* FRAMED FLOOR HOLE		LOOR HOLE	HOLE NO. FOR		
FURNACE WIDTH	Α	В	С	D	WIDTH ADJUSTMENT	
14-3/16	11-13/16	19	13-7/16	20-3/8	4	
17-1/2	15-1/8	19	16-3/4	20-3/8	3	
21	18-5/8	19	20-1/4	20-3/8	2	

^{*} The plenum should be constructed 1/4 in. smaller in width and depth than the plenum dimensions shown above.





MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.





SPECIFICATIONS

UNIT SIZE		036060	048080	060100			
RATINGS AND PERFORMAN	CE						
Gas Input (Btuh)*	High Stage	63,000	84,000	105,000			
	Low Stage	40,500	54,000	67,500			
Output Capacity (Btuh)†	High Stage	51,000	69,000	86,000			
Nonweatherized ICS			44,000	55,000			
AFUE†	Nonweatherized ICS	80.0 80.0		80.0			
Certified Temperature Rise	High Stage	30—60	35—65				
Range (°F)	Low Stage	15—45 15—45		20—50			
Certified External Static Pressure	e Heat/Cool	0.10/0.50	0.20/0.50				
Airflow CFM	Heating High/Low	1195/1030	1355/1170	1735/1500			
	Cooling	1195	1580	1950			
ELECTRICAL							
Unit Volts— Hertz— Phase			115—60—1				
Operating Voltage Range	Min-Max		104—127				
Maximum Unit Amps		10.5	14.2	17.9			
Maximum Wire Length (Measure	d 1 Way) Ft	35	26	32			
Minimum Wire Size			14	12			
Maximum Fuse Size			15	20			
Transformer (24v)			40va				
External Control	Heating		19va				
Power Available	Cooling	35va					
Air Conditioning Blower Relay		Standard					
CONTROLS							
Limit Control			SPST (Auto-Reset)				
Heating Blower Control		Solid-State Time Operation					
Inducer		2-Speed					
Burners (Monoport)		3	4	5			
Gas Connection Size			1/2-in. NPT				
GAS CONTROLS							
2-Stage Redundant Gas Valve			White-Rodgers				
	nlet Pressure (In. wc)		4.5 (Natural Gas)				
Max Ir	nlet Pressure (In. wc)	13.6 (Natural Gas)					
Ignition Device	,	Hot Surface					
BLOWER DATA							
Direct-Drive Motor HP (PSC)		1/3	1/2	3/4			
Motor Full Load Amps		5.1	7.4	11.0			
RPM (Nominal)—Speeds			1075—5				
Blower Wheel Diameter x Width ((In.)	10 x 6	10 x 8	10 x 6			
Filter Size (In.)—Permanent Was	` '		4 x 20 x 1	(2) 16 x 20 x 1			
DEALER-INSTALLED ACCES		(=) .		(-)			
Downflow Subbase**	JOHNIE O		KGASB0201ALL				
High-Altitude Pressure Switch Kit	it i	KGAH5601PSW					
Gas Conversion Kit—Natural-to-F			KGANP26012SP				
	·		KGANF 200 123F KGAPN21012SP				
Gas Conversion Kit—Propane-to		-l		and and Defeate Nation			

^{*} Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4% for each 1000 ft above sea level. Refer to National Fuel Gas Code Table F4. In Canada, derate the unit 10% for elevations 2000 ft to 4500 ft above sea level.

CONTROLS—THERMOSTATS AND ZONING

THERMOSTAT—NON-PROGRAMMABLE	Auto Changeover, °F/°C, 1-Stage Heat/1-Stage cool — TSTATBBNAC01-B Auto Changeover, °F/°C, 2-Stage Heat/1-Stage Cool — TSTATBBNHP01-B Auto Changeover, °F/°C, 2-Stage Heat/2-Stage cool — TSTATBBN2S01-B in AC Mode, 3-Stage Heat/2-Stage Cool in HP Mode Air Conditioner, 1-Stage Heat/1-Stage Cool, Manual Changeover, °F/°C — TSTATBBBAC Heat Pump, 2-Stage Heat/1-Stage Cool. Manual Changeover, °F/°C — TSTATBBBHP01				
THERMOSTAT-PROGRAMMABLE	Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage heat/1-Stage cool — TSTATBBPAC01-B Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool — TSTATBBPHP01-B Auto Changeover, 7-Day Programmable, °F/°C, — TSTATBBP2S01-B 2-Stage Heat/2-Stage Cool in AC Mode, 3-Stage Heat/2-Stage Cool in HP Mode Dual Fuel Thermostat. Includes Outdoor Air Temperature Sensor — TSTATBBPDF01-B* Thermidistat™ Control — Non-Programmable/Programmable — TSTATBBPRH01-B* Thermostat with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications. Includes Outdoor Air Temperature Sensor.)				
ZONING—2-ZONE	ZONEBB2KIT01, ZONEKIT2ZBDP				
ZONING—4-ZONE	ZONEBB4KIT01				
ZONING—8-ZONE	ZONEBB8KIT01				

[†] Capacity in accordance with U.S. Government DOE test procedures.

ICS—Isolated Combustion System

AIR DELIVERY— CFM (With Filter)

UNIT	BLOWER		EXTERNAL STATIC PRESSURE (IN. WC)							
SIZE	MOTOR HP	SPEED	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
036060	1/3 PSC	High Med-High Med Med-Low Low	1435 1195 1030 900 705	1385 1165 1020 890 700	1320 1145 1010 875 690	1265 1105 985 855 675	1195 1070 955 835 655	1145 1015 915 795 625	1080 955 860 755 580	1000 885 790 690 525
048080	1/2 PSC	High Med-High Med Med-Low Low	1855 1595 1355 1170 880	1765 1570 1345 1170 865	1710 1530 1305 1140 855	1665 1485 1270 1110 830	1580 1410 1220 1075 805	1570 1355 1170 1025 755	1410 1280 1110 965 720	1310 1200 1025 890 655
060100	3/4 PSC	High Med-High Med Med-Low Low	2235 1995 1735 1510 1145	2185 1970 1735 1500 1140	2110 1915 1675 1485 1125	2030 1845 1625 1455 1115	1950 1765 1565 1400 1100	1835 1680 1480 1320 1085	1700 1545 1370 1230 1045	1540 1415 1265 1130 990

INSTALLATION

This unit is certified for downflow installation only. See Installation Manual for important installation instructions.

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

This forced air furnace is equipped for use with natural gas at altitudes 0 10.000 ft

(0-3,050m).

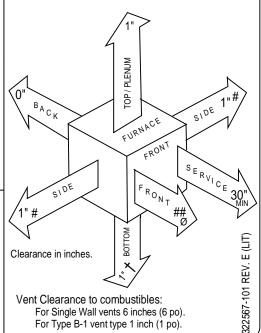
An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas-fired appliances.

- For installation on non-combustible floors only. For installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL, Coil Assembly, Part No. CD5 or CK5, or Coil Casing, Part No. KCAKC.
- For furnaces wider than 14.25 inches (362mm) may be 0 inches.
- 18 inches front clearance required for alcove.
- For single wall vent type 6 inches.



This furnace is approved for DOWNFLOW installations only.

A97620



UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS

Cancels: PDS 331J.60.3

